

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K-732PCT	FOR FURTHER ACTION	
International application No. PCT/JP2005/015777	International filing date (day/month/year) 30.08.2005	Priority date (day/month/year) 30.08.2004
International Patent Classification (IPC) or national classification and IPC F16D48/06		
Applicant KOMATSU LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
<input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
<input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
<input checked="" type="checkbox"/> Box No. I Basis of the report
<input type="checkbox"/> Box No. II Priority
<input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI Certain documents cited
<input type="checkbox"/> Box No. VII Certain defects in the international application
<input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/015777

Box No. I Basis of the report

1. With regard to the **language**, this report is based on:

the international application in the language in which it was filed

the translation of the international application into _____, which is the language of a translation furnished for the purposes of:

international search (Rule 12.3(a) and 23.1(b))

publication of the international application (Rule 12.4(a))

international preliminary examination (Rule 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished

the description:

pages _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

the claims:

nos. _____ as originally filed/furnished

nos.* _____ as amended (together with any statement) under Article 19

nos.* _____ received by this Authority on _____

nos.* _____ received by this Authority on _____

the drawings:

sheets _____ as originally filed/furnished

sheets* _____ received by this Authority on _____

sheets* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. The amendments have resulted in the cancellation of:

the description, pages _____

the claims, nos. _____

the drawings, sheets/figs _____

the sequence listing (*specify*): _____

any table(s) related to sequence listing (*specify*): _____

4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____

the claims, nos. _____

the drawings, sheets/figs _____

the sequence listing (*specify*): _____

any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superceded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/015777

Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1 – 4	YES
	Claims		NO
Inventive step (IS)	Claims	1 – 4	YES
	Claims		NO
Industrial applicability (IA)	Claims	1 – 4	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 3-24358 A (Komatsu Forklift Co., Ltd.), 01 February 1991, entire text, all drawings
(Family: none)

Document 2: JP 2-503345 A (Caterpillar Inc.), 11 October 1990, page 5, lower left column, line 10 to page 9, upper right column, line 24; fig. 1 to 5 & DE 3873339 A1 & EP 364513 A1 & US 4865176 A & WO 1989/008208 A1

Document 3: JP 2002-295526 A (Komatsu Ltd.), 09 October 2002, column 1, lines 1 to 34; column 3, line 41 to column 10, line 43; fig. 1 to 3
(Family: none)

Document 4: US 6647332 B1 (Caterpillar Inc.), 11 November 2003, column 1, line 32 to column 6, line 65; fig. 2 to 4 (Family: none)

Document 5: EP 141005 A1 (Carlo Graziano S. p. A.), 15 May 1985, page 3, line 27 to page 10, line 6; fig. 2 and 3 (Family: none)

The inventions set forth in claims 1 to 4 are not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.